



Perspektiver fra udlandet

Karlshøj, Jan

Publication date:
2015

Document Version
Peer reviewed version

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Citation (APA):
Karlshøj, J. (Author). (2015). Perspektiver fra udlandet. Sound/Visual production (digital)

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Bips CAD-erfa Øst, Søhuset, Scion DTU, Hørsholm. 7 okt. 2014

Perspektiver fra udlandet

Jan Karlshøj, Nordisk buildingSMART formand
Sektionsleder, DTU Byg
Partner, Gravicon DK

Profil

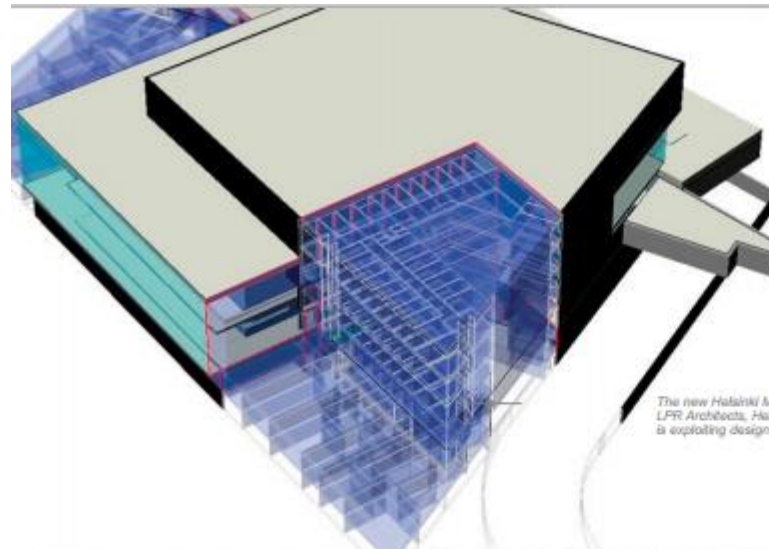
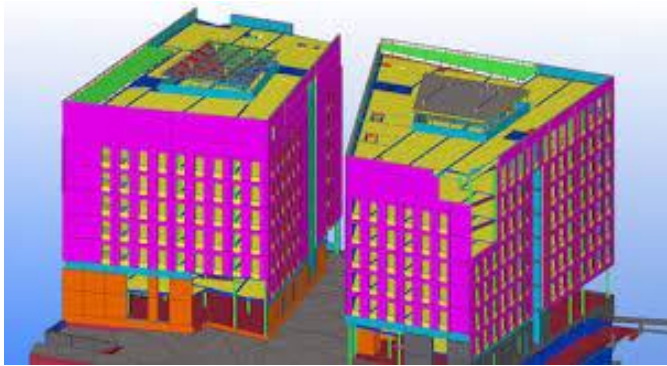
- **DTU Byg**
 - Sektionsleder Bygningsdesign
 - Lektor
- **buildingSMART**
 - International IDM Coordinator/Leder af Process Room
 - Nordisk formand
 - Medlem af buildingSMART Forum i bips
- **Bips**
 - Medlem af styregruppe
- **Standardisering**
 - TC59/SC13/WG 8 & 13
 - CEN BT WG 215
 - DS S-808
- **Gravicon**
 - Konsulentvirksomhed
 - Fokus på buildingSMART relaterede ydelser

Internationalt perspektiv

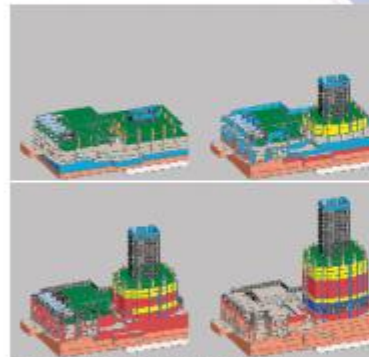
- **Deltagelse i buildingSMART siden 1996**
 - Norden
 - Internationale møde i Europa, Nordamerika, Mellemøsten, Asien og Australien
- **Innovation platform**
- **Videnskabelige konferencer**

Projekter

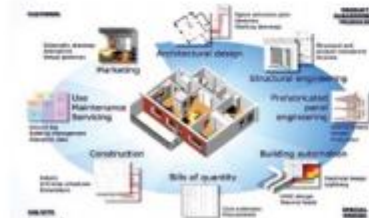
- Norge:
<http://iug.buildingsmart.org/resources/itm-and-iug-meetings-2013-munich/process-room/process-room-experiences>
- Finland: Helsinki Music Centre



The new Helsinki Music Centre design, by LPR Architects, Helsinki, Finland uses BIM and is exploring design collaboration using IFC.



BIM supports simulation of construction activities and integrated coding.
Images courtesy Visbecor, San Francisco, USA



Product model based design vision adopted by Finnish construction industry.
Image courtesy Proff, Helsinki, Finland

BETTER PLANNING AND CONTROL OF BUILDING CONSTRUCTION PROJECTS through better collaboration, co-ordination and sharing of project information

The International Alliance for Interoperability (IAI) has spent the last 10 years establishing an open standard - IFC - for the use of object technology in construction and facilities management.

In the last two years IAI has turned its attention to broader issues of achieving beneficial change in industry, using Building Information Models (BIMs) and IFCs as the trigger to smarter ways of working. This is the origin of the rebranding last year of IAI as **buildingSMART**.

Under the **buildingSMART** banner, IAI is seeking alliances with other similarly motivated organisations to support processes which deliver faster, better, less expensive and more predictable results than can be achieved with traditional methods.

BuildingSMART = BIM + IFC

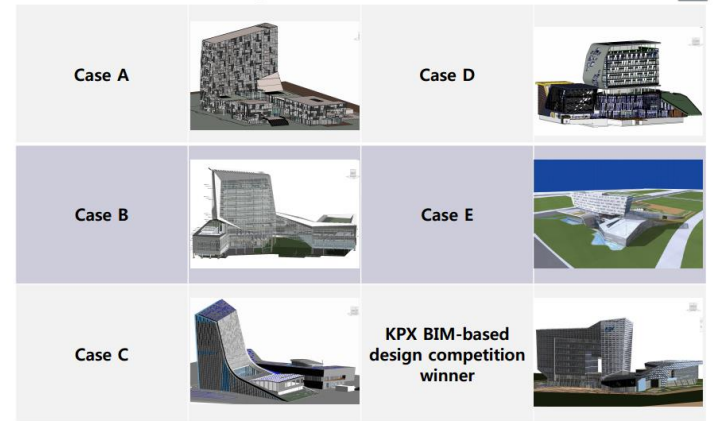
Building information modelling is a new approach to describing and displaying the information required for the design, construction and operation of built facilities. IFC provides a comprehensive specification for the totality of information within the lifecycle of a constructed facility

Projekter

- Korea:
http://bips.dk/files/bips.dk/article_files/4e_2010.pdf
- Kina

Glodon 广联达

▪ BIM Model (3D Image)



ITalab Lib for Information Technology in AEC AEC 정보연구실

대한민국 빌딩스마트협회 buildingSMART KOREA

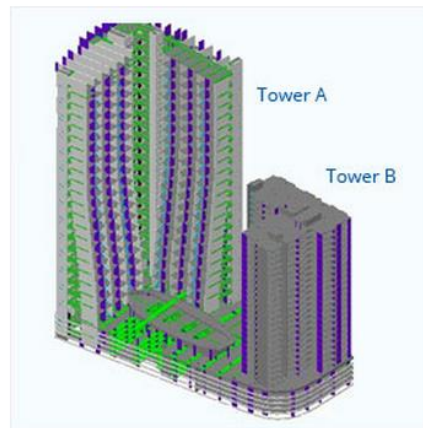
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Home > Products > TAS



Glodon Takeoff for Architecture and Structure
TAS

- Product Introduction >
- Case Studies >
- Download Center >



Building type : Mixed Development
Location : Subang

Numbers of floors :
Tower (A) - 52
Tower (B) - 28

Using TAS made easy :

- Fast in copying elements to other similar floors, entails only modification on gradually changing elements.

Projekter

KPX Headquarter Relocation Design Competition

51

- BIM Model (3D Image)



Case A



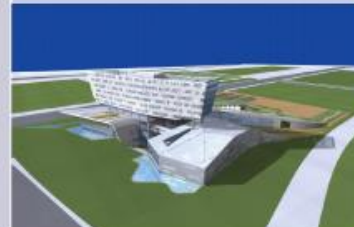
Case D



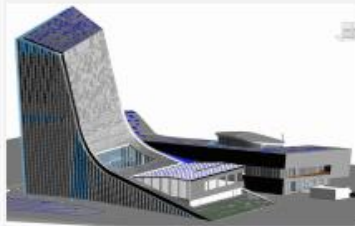
Case B



Case E



Case C

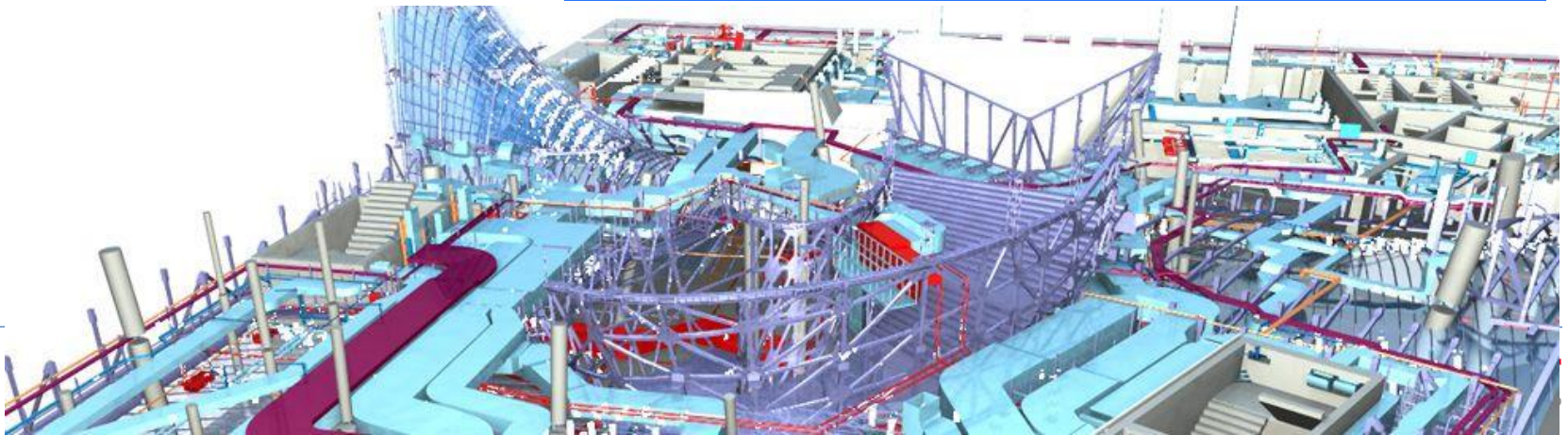
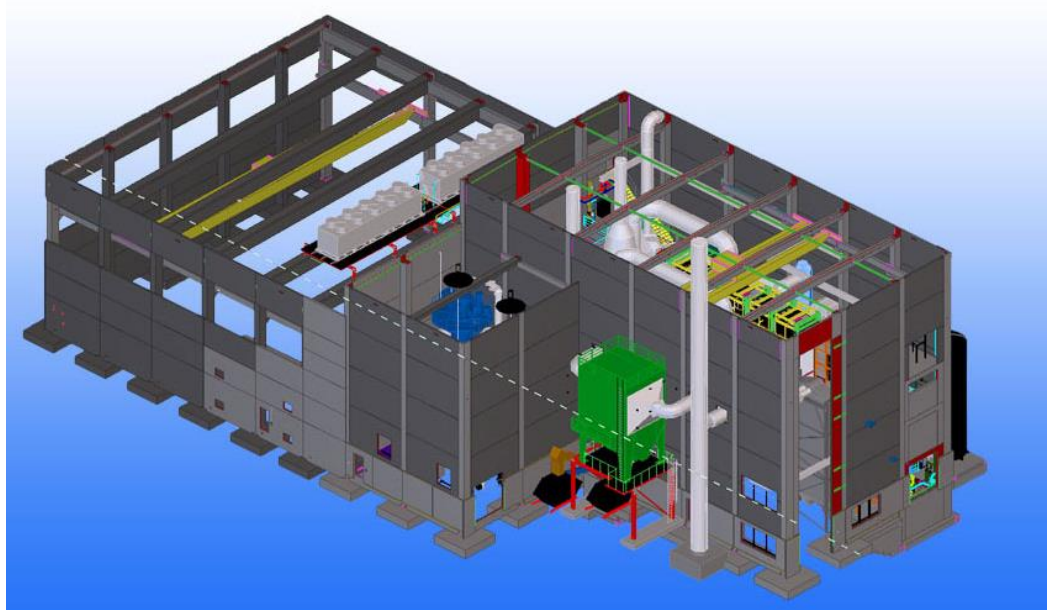


KPX BIM-based
design competition
winner



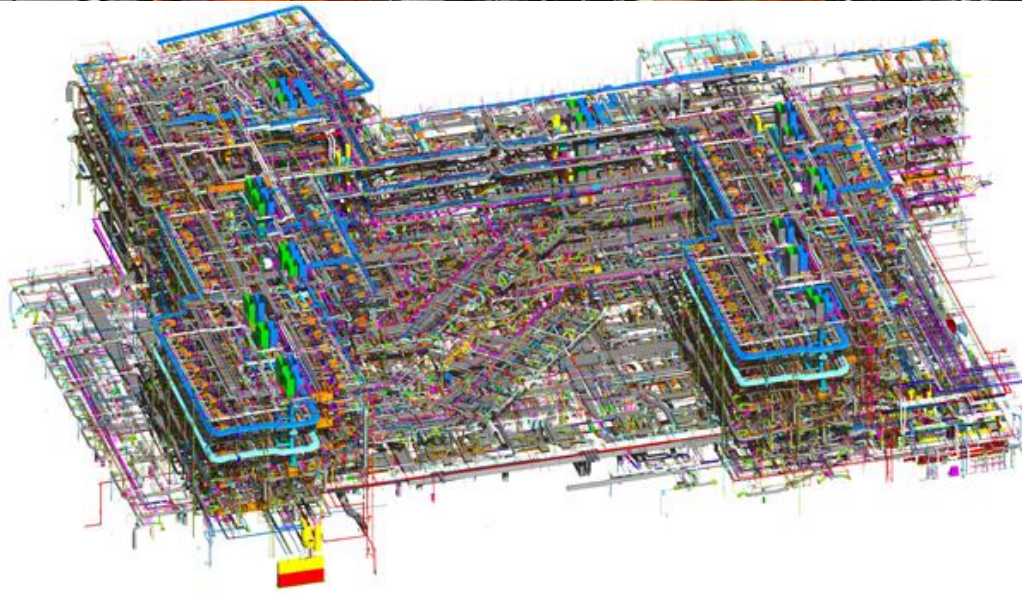
Projekter

- **Tyskland:**
 - Meget 2D CAD
 - Undtagelser
 - Max Bögl
 - Hochtief
 - ..



Projekter

- USA
 - DPR



Projekter

- Mellemøsten: h/2012-oslo/proc2012/BIM%20i
- Krav om BIM
 - Museum i Kairo

Abu Dhabi Airport Midfield Terminal Building



Client: Abu Dhabi Airport Company
 Design Consultant: KPF, Arup
 Area: 630,000 square meters
 Cost: US\$ 6.8 billion
 BIM Spec: Written in collaboration with buildingSMART ME.

Abdulaziz Centre for World Culture, Saudi Arabia



Client: Saudi Aramco
 Design Consultants: Snøhetta, Buro Happold
 Area: 45,000sqm
 Cost: US\$ 400 million

Masdar City, Abu Dhabi



Client: Mubadala (Abu Dhabi Government)
 Area: 6 square km
 Cost: US\$19 billion

BIM Spec: Written by Bentley mentions IFC but requests DGN as primary model delivery format

Requirements: modelling, coordination, construction support

Al Mafraq Hospital, Abu Dhabi

'BIM shall be developed using Revit Architecture, Revit Structure and Revit MEP or other IFC/BIM compatible and be compatible with Navisworks'



Client: SEHA – Abu Dhabi Health Authority
 Design Consultants: Burt Hill
 Area: 246,000 sqm
 Cost: US\$1 billion



Images by Burt Hill

BIM Spec: Written by Design Consultant, Revit is the required BIM software, and delivery of model to be in RVT format. Deliver their models in other formats (including IFC) is acceptable.



Saadiyat Island Cultural Centre, Abu Dhabi

Louvre Abu Dhabi



Image by Atelier Jean Nouvel

Guggenheim Abu Dhabi



Image by Gehry Partners

Client: Mubadala (Abu Dhabi Government)
 Design Consultants: as above + Buro Happold
 BIM Spec: Written with support from Gehry Technologies

Open BIM

- **Danmark: Bygherrekrav siden 2007, seneste revision 2013**
- **Norge: Krav om open BIM i 2016**
- **UK: BIM Level 2 i 2016**
- **Nyt nationalt initiativ i Tyskland med fokus på åbne standard**
- **Frankrig rører også på sig**
- **Holland er i gang med krav**
- **Østrig, objekter og egenskaber**
- **Amerikanske stater**
- **Korea, 28.2M\$ projekt med fokus på open BIM**

IFC, IDM, MVD, bSDD og BCF

About buildingSMART.

BuildingSMART is a world-wide alliance driving the development of open internationally-recognised standards, tools and training to support the wider use of Building Information Modelling (BIM) across the architecture, engineering and construction (AEC) and facilities management (FM) industries.



UK <http://www.bimtaskgroup.org/>

BIM Building Information Modelling (BIM) Task Group

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"This Government's four year strategy for BIM implementation will change the dynamics and behaviours of the construction supply chain, unlocking new, more efficient and collaborative ways of working. This whole sector adoption of BIM will put us at the vanguard of a new digital construction era and position the UK to become the world leaders in BIM."

Francis Maude
Minister for the Cabinet Office

Welcome to the BIM Task Group Website

The Government Construction Strategy was published by the Cabinet office on 31 May 2011. The report announced the Government's intention to require collaborative 3D BIM (with all project and asset information, documentation and data being electronic) on its projects by 2016.

Essentially the UK Government has embarked with industry on a four year programme for sector modernisation with the key objective of reducing capital cost and the carbon burden from the construction and

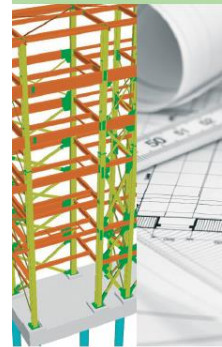
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Latest News

BS 1192-4:2014 Collaborative production of information Part 4: Fulfilling employers information exchange requirements using COBie – Code of

PAS 1192-2:2013
Incorporating Corrigendum No. 1

Specification for information management for the capital/delivery phase of construction projects using building information modelling



PAS 1192-3:2014
Incorporating Corrigendum No. 1

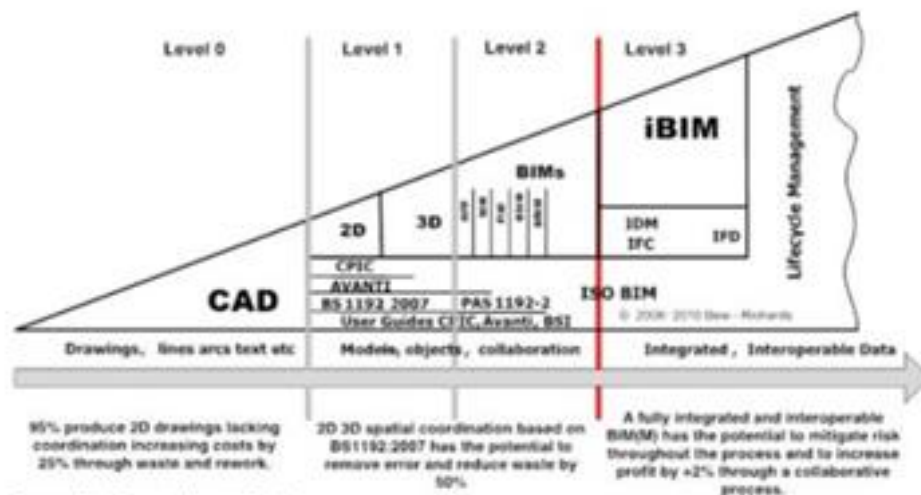
Specification for information management for the operational phase of assets using building information modelling



BS 1192-4:2014

BSI Standards Publication

Collaborative production of information
Part 4: Fulfilling employer's information exchange requirements using COBie – Code of practice



Source: Mark Baw and Mervyn Richards

bsi.

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UK

What is COBie UK 2012?

COBie is formal schema that helps organise information about new and existing facilities. It is general enough that it can be used to document both Buildings and Infrastructure assets. It is simple enough that it can be transmitted using a spreadsheet. It is means of sharing structured information, just like CDM and BIM.

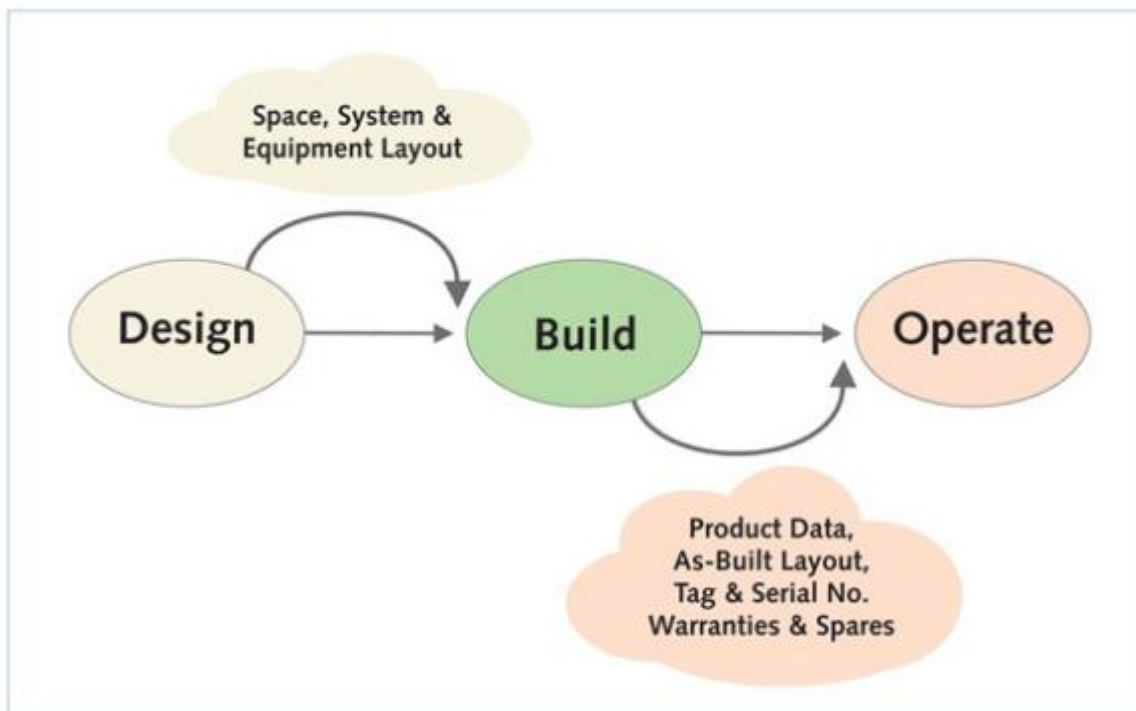


Image courtesy of USACE ERDC

COBie 2012 UK Template Repository

[Home](#)[About The Templates](#)[Templates A-Z](#)[Search Templates](#)[BIM](#)

Templates A-Z

The templates are presented as complete sets in a compressed zip directory format. Each zip contains COBie, IFC, IFCXML, HTML, and XHTML file types.

Download the complete set of templates here - [DOWNLOAD](#) (8mb zip file expanding to 115mb)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

[Actuator ELECTRIC ACTUATOR UK](#)

[Actuator HAND OPERATED ACTUATOR UK](#)

[Actuator HYDRAULIC ACTUATOR UK](#)

[Actuator NOT DEFINED UK](#)

[Actuator PNEUMATIC ACTUATOR UK](#)

[Actuator THERMOSTATIC ACTUATOR UK](#)

[Actuator USER DEFINED UK](#)

[Air Terminal DIFFUSER UK](#)

[Air Terminal GRILLE UK](#)

[Air Terminal LOUVRE UK](#)

UK Product Template

Schedule of every type.

Project : UK Product Template

Category	Project	.	.
Project	UK Product Template .	.	UK Product Template .
Type	.	.	.
Phase	design	.	.

Actuator Type : Actuator_ELECTRICACTUATOR_UK

Category	Actuator Type ELECTRICACTUATOR: A device that electrically actuates a control element. electricactuator	.	.
Actuator Type	Actuator_ELECTRICACTUATOR_UK .	.	ELECTRICACTUATOR: A device that electrically actuates a control element. Template .
Type	Actuator_ELECTRICACTUATOR_UK .	.	.
Tag	UK Product Template Template	.	.
Element Type	ELECTRICACTUATOR: A device that electrically actuates a control element.	.	.
Predefined Type	electricactuator	.	.
Fail Position	unset	<ul style="list-style-type: none"> failopen failclosed notknown unset 	Specifies the required fail-safe position of the actuator.
			Identifies whether hand-

UK

<http://www.nationalbimlibrary.com/>

nbs National BIM Library

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The only BIM object library which directly links to
the market leading NBS specification software

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Download plug-ins



The National BIM Library

User Guide – Wall



The National BIM Library

User Guide: Wall

Version 1.0

16th March 2012

www.nationalBIMlibrary.com

The National BIM Library

User Guide – Wall



fire safety classification.

IsExternal	Indication whether the element is designed for use in the exterior (TRUE) or not (FALSE). If (TRUE) it is an external element and faces the outside of the building.
ExtendToStructure	Indicates whether the object extend to the structure above (TRUE) or not (FALSE).
LoadBearing	Indicates whether the object is intended to carry loads (TRUE) or not (FALSE).
Reference	Indication whether this object is designed to close automatically after use (TRUE) or not (FALSE).
SurfaceSpreadOfFlame	Reference ID for this specified type in this project (e.g. type 'A-1').
ThermalTransmittance	Thermal transmittance coefficient (U-Value) of a material. Here the total thermal transmittance coefficient through the wall (including all materials).

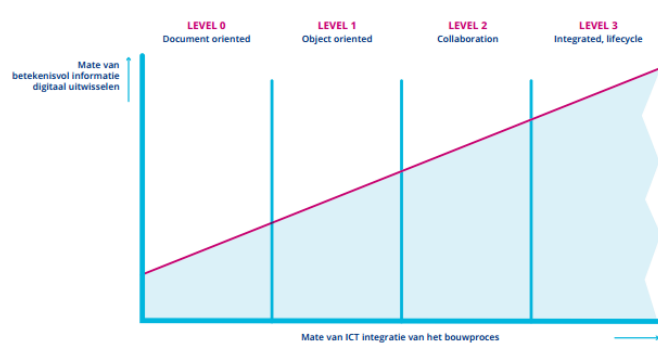
2.3 COBie Parameters





The following COBie parameters have been included within each wall element and can be used to prepare COBie data schedules.

AssetIdentifier	The asset identifier assigned to an occurrence of a product (prior to handover).
BarCode	The identity of the bar code (or rfid) given to an occurrence of the product.

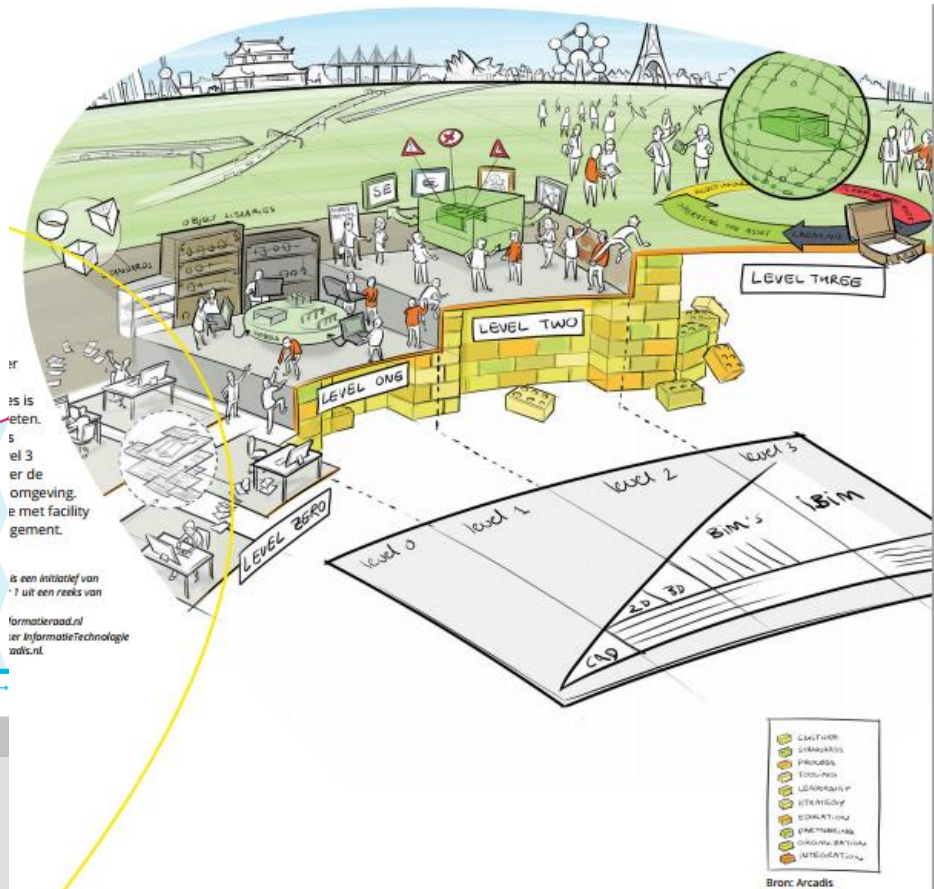
Netherlands

- <http://www.bouwinformatieraad.nl/wp-content/uploads/2014/04/Kenniskaart001.pdf>



Werkwijze				
Data	Drawings, lines, arcs, text, etc.	Models, objects	Models, objects, common libraries	Integrated, interoperable data
Tools	 Paper (CAD, Excel, Word, etc.)	 2D, 3D	 File based collaboration & library management, 4D, 5D, ...	 Integrated web-services
Level of Cooperation	Coordination	Coordination	Collaboration	Integration

Mede gebaseerd op: Bew-Richards UK 2008





BIM Guidelines: 59 registreret

← → ↻ bimguides.vtreem.com/bin/view/BIMGuides/Guidelines#t=alldocs&p=1&l=250&s=Name&d=asc

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BIM Guides

BIM Guides



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BIM Guides

Resultater 1 - 59 ud af 59 pr. side for 10 ▾ Side 1  

Name ▴	Country ▴	Fee ▴	Institution ▴	DocumentDate ▴	Type ▴	Lastest update ▴	Latest reviewer ▴	Status ▴
Achieving Spatial Coordination Through BIM: A Guide for Specialty Contractors (fee)	USA		The Mechanical Contractors Association of America, Inc.	12/2013	Single Association Guidelines	2014-07-04	Susan Keenlside	Created

Finland: COBIM

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Common BIM Requirements 2012

Common BIM Requirement 2012, COBIM, is based on the BIM Requirements published by Senate Properties published in. The update project was funded by Senate Properties in addition to several other real estate owners and developers, construction companies and software vendors. BuildingSMART Finland participated also in the financing of the project. As a result, the updated Series 1-9 and new Series 10-13 were released in Finnish on March 27th 2012.

- Series 1: General part
- Series 2: Modeling of the starting situation
- Series 3: Architectural design
- Series 4: MEP design
- Series 5: Structural design
- Series 6: Quality assurance
- Series 7: Quantity take-off
- Series 8: Use of models for visualization
- Series 9: Use of models in MEP analyses
- Series 10: Energy analysis
- Series 11: Management of a BIM project
- Series 12: Use of models in facility management
- Series 13: Use of models in construction

COBIM 2012 in English

The Common BIM Requirements that were published March 2012, are now available in English. Click on the link 2012 in the menu.

News

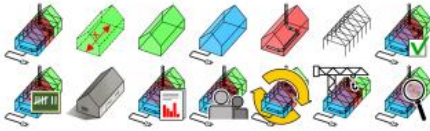
5/23/13
Reijo Hanninen was elected Deputy Chair of buildingSMART International
[Read more »](#)

3/25/13
IFC4 released!
[Read more »](#)

3/17/13
IC meeting in May moved to Helsinki, Finland
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Contact


BuildingSMART Finland
PL 1004
00101 Helsinki



COBIM


Common BIM Requirements
2012

v 1.0



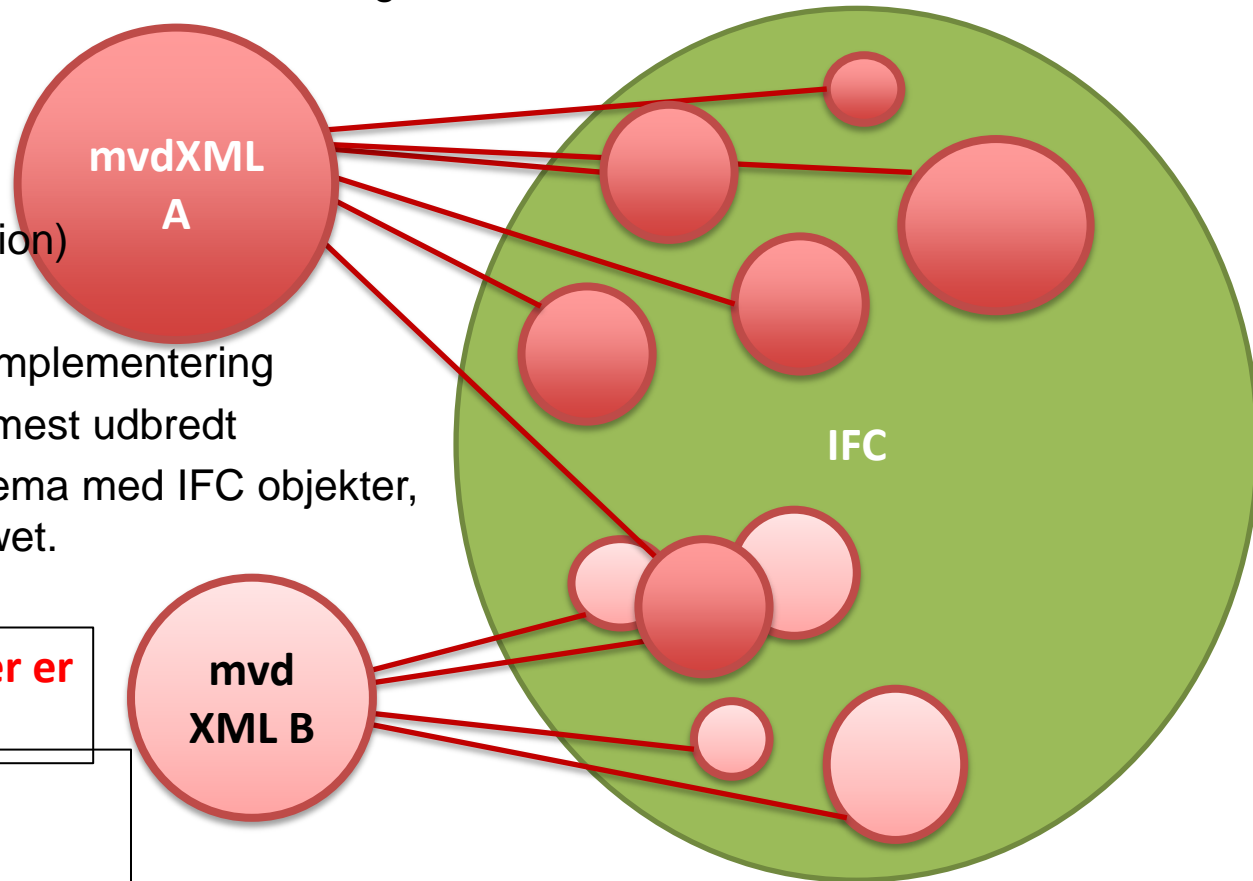
Series 5

Structural design



Industry Foundation Classes (IFC)

- **Version**
 - 0.94, 1.0, 1.5, 1.5.1, 2.0, 2x, 2x2, 2x3 og 4
- **IFC**
 - Datamodel
- **MVD**
 - (Model View Definition)
 - Subset
 - Basis for software implementering
 - Coordination View mest udbredt
 - mvdXML – XML skema med IFC objekter, som er indgår i viewet.



Der er mere i IFC end der er implementeret

Der kan godt eksistere software som er IFC-kompatibelt, men som ikke "forstår" hinanden.

Specifications — Welcome x IFC4 Documentation x

www.buildingsmart-tech.org/ifc/IFC4/final/html/index.htm

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Industry Foundation Classes Release 4 (IFC4) © buildingSMART International Ltd 1996-2013

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4. Fundamental concepts and assumptions

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6. Shared schemas
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Industry Foundation Classes

IFC4 Official Release

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Thomas Liebich - *MSG Leader*
Yoshinobu Adachi, James Forester, Juha Hyvarinen, Stefan Richter, Tim Chipman, Matthias Weise, Jeffrey Wix(?)

Comments, issues or any other feedback should be logged at the buildingSMART [Issue database](#)

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07-10-2014

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www.buildingsmart-tech.org/certification/ifc-certification-2.0/ifc2x3-cv-v2.0-certification/participants

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Software Developer	Software Application	Exchange Requirement	Export/Import	Status
4Projects Ltd.	4Projects	- (*)	Import	in progress
Aconex BIM Cloud	Aconex	- (*)	Import	in progress
Archimen	Active3D	- (*)	Import	in progress
Autodesk	Advanced Steel	Structural	Export	in progress
Autodesk	AutoCAD Architecture	Architecture	Import & Export	in progress
Autodesk	AutoCAD MEP	BuildingServices	Export	in progress
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DICAD Systeme GmbH	STRAKON	- (*)	Import	in progress
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Design Data	SDS/2	Structural	Import & Export	in progress
Dlubal Software GmbH	RFEM/RSTAB	- (*)	Import	in progress
ETU Software GmbH	HottCAD 4	- (*)	Import	in progress
FirstInVision	CasCADos / P3cad	Architecture	Import & Export	in progress

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- Certification details
- Understand certification
- Importance to users
- Service to developers
- IFC Certification 2.0
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- How to participate
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- IFC2x certification

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Graphisoft ArchiCAD 17	CV2.0	2013/09/20	
ArchiBIM Server	CV2.0	2014/04/22	
Nemetschek Allplan 2015	CV2.0	2014/05/07	
Autodesk Revit MEP 2013	CV2.0-MEP	2034/07/11	
RIB iTWO 2013	CV2.0	2013/09/07	
Tekla Structures v19.1	CV2.0	2013/10/09	
Solibri Model Checker 9	CV2.0	2014/10/30	
Vectorworks Architect 2014 SP2	CV2.0	2013/11/11	
Autodesk Revit LT	CV2.0-Arch	2013/07/07	

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Announces Strategic Changes ›
August 26, 2014 6:58 pm

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• Property Sets (410)

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- [Pset_ActorCommon](#)
- [Pset_ActuatorPHistory](#)
- [Pset_ActuatorTypeCommon](#)
- [Pset_ActuatorTypeElectricActuator](#)
- [Pset_ActuatorTypeHydraulicActuator](#)
- [Pset_ActuatorTypeLinearActuation](#)
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1Dh7y0qRqHuO00025QrE\$V


1

2012.07.19 18:17:59

DRAFT

PROPERTY

Official IFC Property Set

 Ifc4

Pset_ActuatorTypeCommon

from buildingSMART Data Dictionary

Name	Value
properties	<ul style="list-style-type: none">ManualOverrideApplicationFailPositionStatusReference
ifcName	Pset_ActuatorTypeCommon
ifcVersion	2x4
ifcDefinition	Actuator type common attributes.
Applicability	undefined
ApplicableClasses	IfcActuator
ApplicableTypeValues	undefined
Guid	OZMi60qRqHuO00025QrE\$V

• Official PSD format

Name

Pset_ActuatorTypeCommon.ManualOverride

actuator type common . manual override

オーバーライド機能の有無

Language

 IFC 2x4

 International

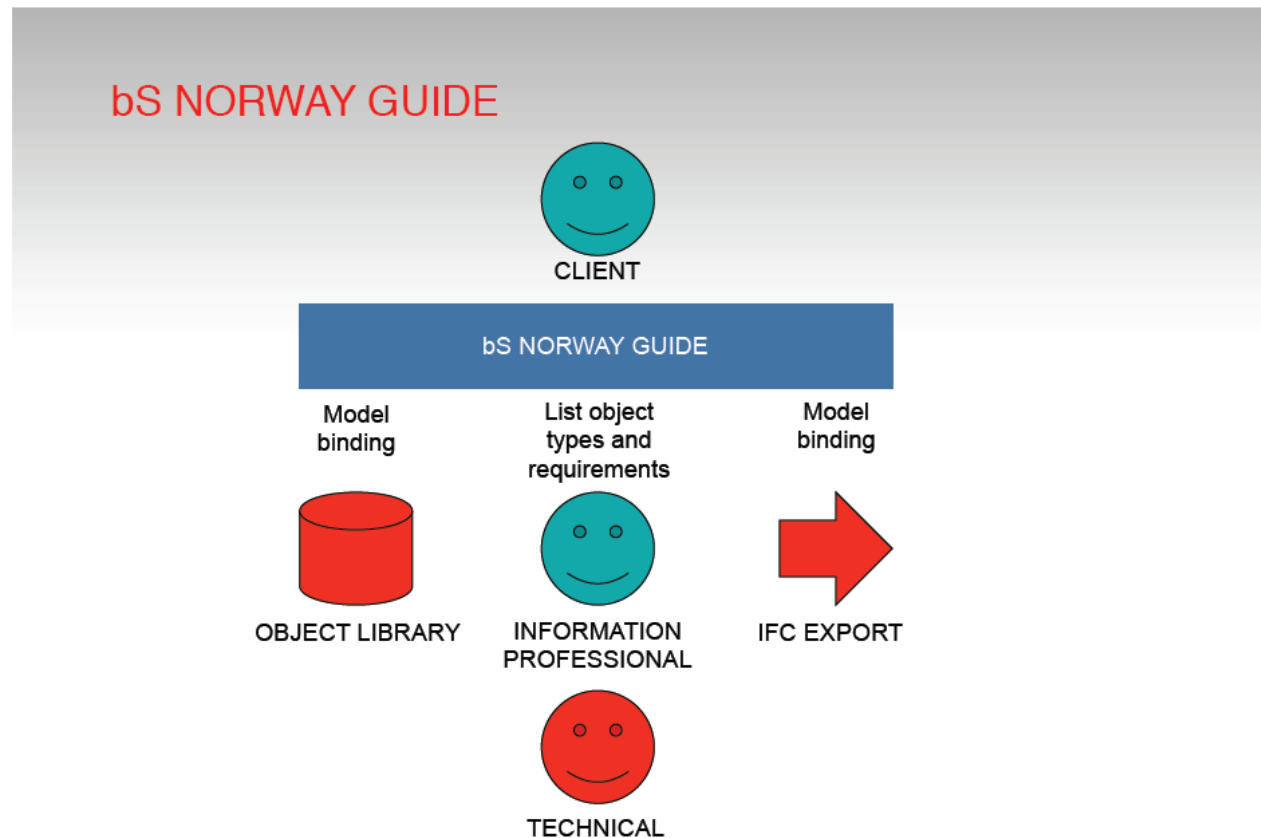
 English

 日本語

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NORDIC

buildingSMART Norge

- **Matrix**
 - Faser
 - Aktiviteter
- **Kontrakt**
- **Verifikasjon af data**



BUILDING AN openBIM NATION – Steen Sunesen
BIM International Conference 2014 – Lisbon – 9 & 10 October



buildingSMART Østrig

- Objektstruktur
- Generiske objekter med egenskaber
- Revit løsning med open source API udnytter mulighed for at lagre “tidsplan” data i IFC egenskabssæt.
- Løsning til Nemetschek og ArchiCAD på vej.

buildingSMART UK

- NBS objektkatalog
- Generiske og specifikke
- Flere på objekter med egenskaber er på vej.